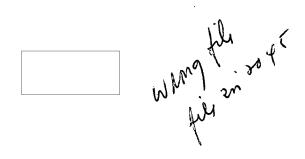
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21 November 1956

- 1. Forwarded herewith is our data on the motor in question. The unit is quite husky; tests indicate that it is capable of holding the speed at 3 times the required torque even at minimum voltage. The no-load, and the full-load power, are both higher than our specification. This means roughly, that for the same volume of batteries used before, we would now get only 25% of previous life. The power for 0.25 oz.-in. will require (0.320 x 12) 3.8W which is not within our specification.
- 2. Categorically speaking, this unit meets our requirement for torque, regulation, etc. It would be highly advantageous to reduce power input. Broadly speaking the volt-amperes necessary to develop 0.25 oz.- in. is 1.2 watts. The motor losses, and the dissipation in the governor resistor, it would seem, should not consume over an additional watt.
- 3. On the last day of test, intermittent speed variations were noted. Please check our figures against the manufacturers. All our tests so far have been made at room temperature.



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